

OPTICAL DEMULTIPLEXER WITH MULTI-CHANNEL POWER CONTROL AND TILT COMPENSATION

Abstract of the Disclosure

- 5 Systems and methods for controlling power of WDM channels in a WDM receiver. A preamplifier is provided prior to a demultiplexer in the WDM receiver chain. The gain of the preamplifier may be controlled based on power measurements made on individual WDM channels. A filter with controllable tilt may be employed to compensate for amplifier gain tilt and assure that all of the WDM channels remain within
- 10 the dynamic range of the photodetector and receiver electronics. This provides improved bit error rate performance.